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## Summary Report

NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

# SA-X-10 ACTIVITY AND PROBABLE ASSOCIATED CONSTRUCTION AT KAPUSTIN YAR SAM FIRING RANGE, USSR

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(See inside cover)

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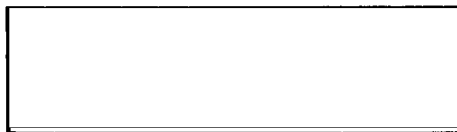
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NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
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## SA-X-10 Activity and Probable Associated Construction at Kapustin Yar SAM Firing Range, USSR

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Components of the newly designated SA-X-10, canister-launched SAM system, previously referred to as the Sary Shagan Launch Complex G SAM system, have been identified at the Kapustin Yar SAM Firing Range. This report summarizes the SA-X-10 missile system components seen at the range [ ] and describes the reconfiguration of two SAM sites at the range, which are believed to be likely candidates for troop training/electronics testing with the SA-X-10 missile system.

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[ ], a transportable radar tower and an antenna assembly trailer, both of which are associated with the SA-X-10 acquisition radar, were identified for the first time at the Kapustin Yar SAM Firing Range. They were parked in travel mode on an apron at the eastern end of the SAM marshalling area. [ ] ten of the launchers for the system could be identified on the same apron. On 6 November, six additional launchers were observed, [ ], the following SA-X-10 components were observed: 32 launchers, two transportable radar towers, an antenna assembly trailer, and a possible electronics van. Although the van is similar in size to the engagement radar for the SA-X-10 system, it could not be confirmed as an engagement radar [ ]. All of these components were observed parked in travel mode.

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Two reconfigured SAM sites at the range are believed to be likely candidates for troop training/electronics testing with the SA-X-10 missile system. Reconfiguration of the former SA-2 site at SAM R/D Training Facility B had begun [ ] and was almost complete [ ]. The site was reconfigured to include two large road-served hardstands and three probable concrete launch positions situated along the existing outer-perimeter road, which was also paved. The centrally located guidance apron has not been altered and has remained occupied with SA-2 electronics related components throughout the construction.

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[ ] reconfiguration of launch site D, SAM R/D area D, an area historically associated with SA-3 testing, was observed underway. This site was in a late stage of construction [ ] and appeared to be complete [ ]. The site is similar in size and configuration to the site at SAM R/D Training Facility B.

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Both sites are oriented in a northerly downrange direction and are approximately 14 nautical miles apart. Their similarity in size and site configuration suggests that they will have the same function. If they are intended as support for the SA-X-10 system training, then deployed SA-2 and SA-3 sites for the SA-X-10 missile system could possibly be reconfigured in the near future. Similar conversions to support the SA-5 missile system in the USSR have already been seen.

[ ], no SA-X-10 system components had been seen at either site.

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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